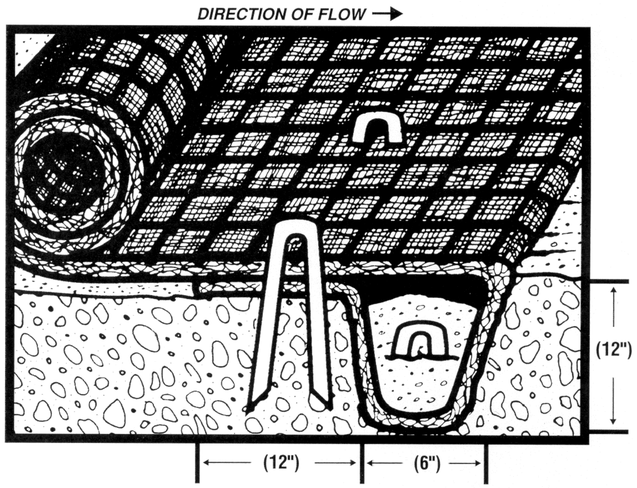


Figure 1: Initial Anchor Trench (Channels)

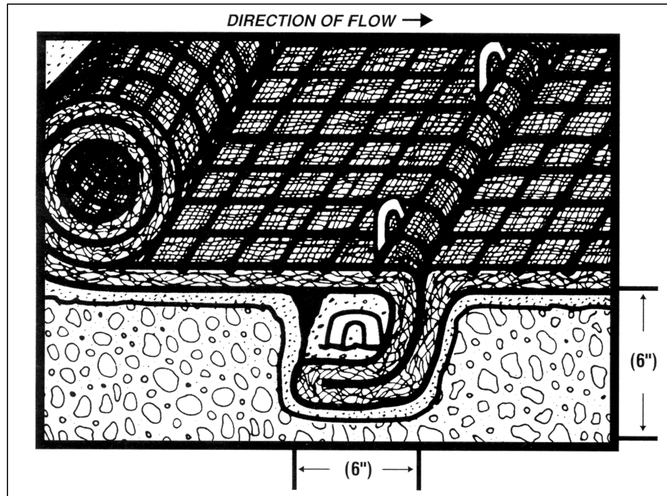


Figure 2: Intermittent Check Slot (Channels)

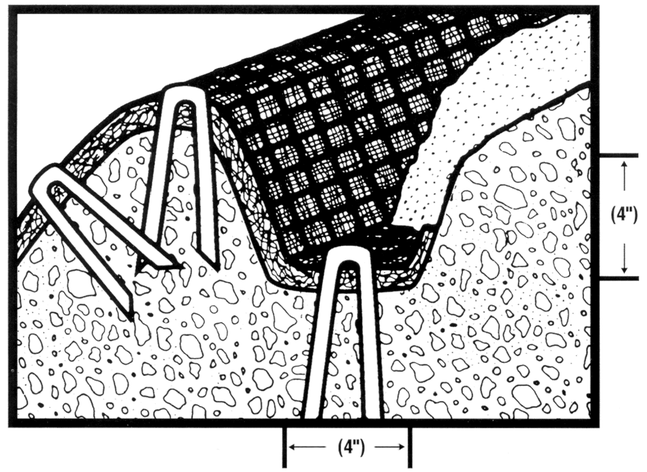


Figure 3: Longitudinal Anchor Trench (Channels)

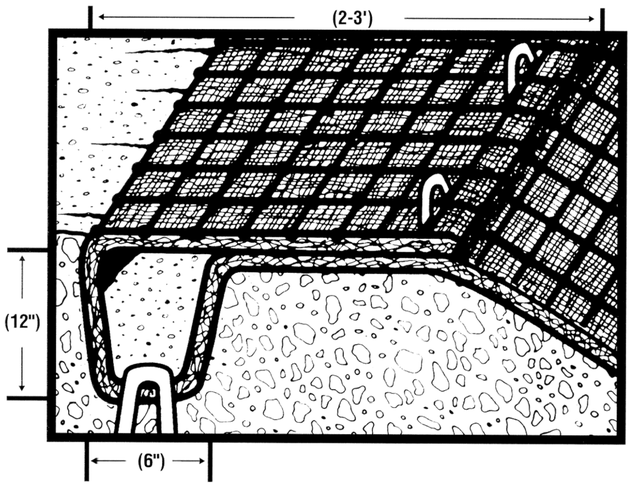


Figure 4: Terminal Anchor Trench (Slopes and Channels)

TEMPORARY EROSION CONTROL MATTING

Installation Guidelines

Site Preparation

1. Grade and compact area of installation.
2. Prepare seedbed by loosening 2"-3" of topsoil above final grade.
3. Incorporate amendments such as lime and fertilizer into soil.
4. Remove all rocks, clods, vegetation or other obstructions so that the installed matting will have direct contact with soil surface.
5. Do not mulch areas where mat is to be placed.

Seeding

1. Apply seed to the soil surface before installing matting or after installation for enhanced performance prior to soil filling (preferable).
2. When seeding prior to matting installation, all check slots and other areas disturbed must also be re-seeded.
3. When soil filling, seed matting and entire disturbed area after installation, prior to filling mat with soil.

Placement: Banks and Slopes

1. Extend matting 2'-3' over the crest of the slope and excavate a 12" x 6" terminal anchor trench (Figure 4).
2. Anchor matting in trench on 1' spacings, backfill and compact soil.
3. Unroll matting down slope.
4. Overlap adjacent rolls at least 3" and anchor every 18".
5. Lay matting loose to maintain direct contact with soil. (Do not pull matting taut. This may allow bridging of soil surface.)
6. Secure matting to ground surface using U-shaped wire staples. (See ground anchoring devices below.)
7. The minimum anchor pattern shall be 3 anchors/square yard.

Placement: Channels

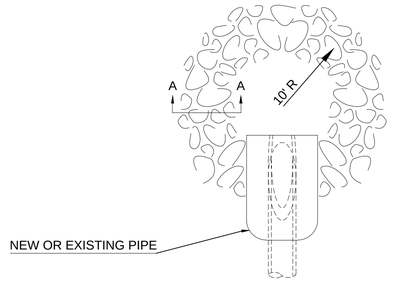
1. Excavate an initial anchor trench 12" deep and 6" wide across the channel at the lower end of the project area (Figure 1).
2. Excavate intermittent check slots 6" deep and 6" wide across the channel at 30' intervals along the channel (Figure 2).
3. Cut longitudinal channel anchor slots 4" deep and 4" wide along both sides of the installation to bury edges of matting (Figure 3). Extend mat 2'-3' above crest of channel side slopes.
4. Beginning at the center of downstream end of the channel, place the end of the first roll in the anchor trench and secure with fastening devices at 1' intervals (Figure 1).
5. In the same manner, position adjacent rolls in anchor trench, overlapping the preceding roll a minimum of 3".
6. Again, secure at 1' intervals, backfill and compact soil.
7. Unroll matting over the compacted trench. Stop at next check slot or terminal anchor trench.
8. Unroll adjacent rolls upstream in order to maintain a 3" overlap and anchoring every 18".
9. Fold and secure all matting rolls snugly into intermit-tent check slots. Lay matting in the bottom and fold back against itself. Anchor through both layers of mat at 1' intervals then backfill and compact soil (Figure 2). Continue rolling Matting upstream over the compacted slot to the next check slot or terminal anchor trench.
10. Overlap roll ends a minimum of 1' with upstream matting on top. Begin all new rolls in a check slot. Anchor overlapped area by placing two rows of anchors, 1' apart on 1' intervals.
11. Place outer edge of matting in previously excavated longitudinal slots, anchor using prescribed staple pattern, backfill and compact soil (Figure 3).
12. Anchor, backfill and compact upstream end of matting in a 12" x 6" terminal trench (Figure 4).
13. Secure matting to ground surface using U-shaped wire staples. (See ground anchoring devices below.)
14. The minimum anchor pattern shall be 3 anchors/square yard.
15. Seed and fill matting with soil for enhanced performance.

Ground Anchoring Devices

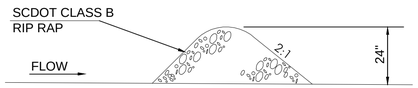
U-shaped wire staples shall be used to anchor matting to the ground surface. Wire staples should be 8 to 11 gage new steel wire formed into a "U" shape. The size, when formed shall be not less than 8 inches in length with a throat of not less than 1 inch in width. Longer staples may be required for loose soils. Heavier metal staples may be required in rocky soils. Increased anchoring may be required depending upon site conditions.

Soil Filling

1. After seeding, spread and lightly rake 1/2"-3/4" of fine topsoil into the matting and completely fill the voids. Use backside of rake or other flat tool to ensure a smooth soil-filled surface.
2. Matting will withstand lightweight rubber-tired construction equipment. No tracked equipment or sharp turns should be made on the mat.
3. Avoid any traffic over matting if very loose or wet soil conditions exist
4. Use shovels, rakes or brooms for fine grading and finishing.
5. Smooth soil fill in order to just expose the top of matrix. Do not place excessive soil above the mat.
6. Broadcast additional seed and mulch above the soil-filled matting.
7. Water as necessary to enhance growth.



PLAN



SECTION A-A

TEMPORARY CULVERT
INLET PROTECTION

N.T.S.

NOTE: SHOWN AS CIP ON PLANS

AIKEN
SOUTH CAROLINA

AIKEN MUNICIPAL AIRPORT
AIKEN, SOUTH CAROLINA

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TRANSPORTATION CONSULTANTS
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THE LPA GROUP INCORPORATED
No. C00448

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 21252
ANDY D. BUSBEE
7-28-11

Designer:	Checked by:
KLM/CKM	CHM
Technician:	Project Number:
CKM	121913

REVISIONS

No.	Description	Date	By

Project Name:

RUNWAY 7
GLIDE SLOPE PROJECT
BID PACKAGE NO. 1

Drawing Name:

EROSION CONTROL
DETAILS NO. 3

FAA A.I.P. Project Number:

Date:	Division:
AUGUST, 2011	AIRPORTS
Scale:	Sheet Number:
NTS	
	Drawing Number: EC-3

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